

This listing of the claims will replace all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

Claim 1 (currently amended): A device comprising a substrate having a plurality of moieties each attached accurately to a designated site on a surface thereof, and containing machine-readable information relating to the moieties, wherein the information is represented by ~~no less than about 1 kilobyte of~~ data that is physically associated with the substrate, and the moieties are accurately attached to the substrate via application of focused acoustic radiation to one or more reservoirs, each containing a moiety for attachment to the substrate surface so as to eject droplets therefrom toward the substrate surface.

Claim 2 (previously amended): The device of claim 1, wherein the machine-readable information contains the identity of a customer.

Claim 3 (previously amended): The device of claim 1, wherein the machine-readable information is secured.

Claim 4 (previously amended): The device of claim 1, wherein the machine-readable information contains shipping and/or billing information.

Claim 5 (previously amended): The device of claim 1, wherein the machine-readable information contains the identity of at least one of the moieties of the plurality of moieties attached to the device surface.

Claim 6 (original): The device of claim 1, wherein the machine-readable information comprises information relating to a process by which the plurality of moieties is attached to the substrate surface.

Claim 7 (original): The device of claim 1, wherein the machine-readable information comprises information relating to experimental conditions associated with the use of the plurality of moieties.

Claim 8 (original): The device of claim 1, wherein the machine-readable information comprises information relating to the results of an experiment associated with the use of the plurality of moieties.

Claim 9 (original): The device of claim 1, wherein the machine-readable information is digital.

Claim 10 (canceled).

Claim 11 (currently amended): The device of claim 9103, wherein the machine-readable information is represented by no less than about 1 megabyte of data.

Claim 12 (original): The device of claim 11, wherein the machine-readable information is represented by about 1 to about 650 megabytes of data.

Claim 13 (previously amended): The device of claim 1, wherein the machine-readable information is in a format that is optically readable.

Claim 14 (previously amended): The device of claim 13, wherein the machine-readable information is in a format that is readable by a fluorescence reader.

Claim 15 (previously amended): The device of claim 13, wherein the machine-readable information is in a format that is readable by a phosphoimager.

Claim 16 (previously amended): The device of claim 13, wherein the machine-readable information is in a format that is readable by a compact disk reader.

Claim 17 (previously amended): The device of claim 13, wherein the machine-readable information is in a format that is readable by a DVD reader.

Claim 18 (previously amended): The device of claim 1, further comprising additional information in a format that is readable by a bar code reader.

Claim 19 (original): The device of claim 18, wherein the bar code reader is a one-dimensional bar code reader.

Claim 20 (original): The device of claim 18, wherein the bar code reader is a two-dimensional bar code reader.

Claim 21 (original): The device of claim 1, wherein the machine-readable information is magnetically readable.

Claim 22 (original): The device of claim 1, wherein the machine-readable information is electronically readable.

Claim 23 (original): The device of claim 1, further comprising human readable information.

Claim 24 (original): The device of claim 1, wherein the attached moieties are protected.

Claim 25 (original): The device of claim 24, further comprising a protective layer over the attached moieties.

Claim 26 (original): The device of claim 25, wherein the protective layer is removable.

Claim 27 (original): The device of claim 25, wherein the protective layer allows only selected matter to be transmitted therethrough.

Claim 28 (original): The device of claim 27, wherein the selected matter is electromagnetic radiation.

Claim 29 (original): The device of claim 28, wherein the electromagnetic radiation has a wavelength that causes fluorescence near an attached moiety.

Claim 30 (original): The device of claim 1, wherein the plurality of attached moieties comprises an array of biomolecules.

Claim 31 (original): The device of claim 30, wherein the biomolecules are nucleotidic or peptidic.

Claim 32 (original): The device of claim 30, wherein the biomolecules are oligomeric or polymeric.

Claim 33 (original): The device of claim 30, wherein the array comprises at least about 5,000 moieties per square centimeter of substrate surface.

Claim 34 (original): The device of claim 33, wherein the array comprises at least about 50,000 moieties per square centimeter of substrate surface.

Claim 35 (original): The device of claim 34, wherein the array comprises at least about 200,000 moieties per square centimeter of substrate surface.

Claim 36 (original): The device of claim 35, wherein the array comprises at least about 1,000,000 moieties per square centimeters of substrate surface.

Claim 37 (original): The device of claim 1, wherein the substrate comprises a disk.

Claim 38 (original): The device of claim 1, wherein the substrate comprises a tape.

Claim 39 (original): The device of claim 1, wherein the substrate comprises a well plate.

Claim 40 (original): The device of claim 1, wherein the substrate comprises a slide.

Claim 41 (original): The device of claim 1, wherein the substrate comprises a plurality of surfaces arranged in a three-dimensional structure to which the moieties are attached

Claim 42 (currently amended): The device of claim 1, wherein the substrate further comprises ~~an additional~~ a magnetic medium.

Claim 43 (currently amended): The device of claim 1, wherein the substrate further comprises ~~an additional~~ optical medium.

Claim 44 (original): The device of claim 1, wherein the surface having the moieties attached thereto opposes a surface on which the information is located.

Claim 45 (currently amended): A ~~device~~method for forming the device of claim 1, comprising the steps of:

(a) providing a substrate having a plurality of designated sites on a surface thereof adapted for attachment to a plurality of moieties and containing machine-readable information relating to the moieties, wherein the information is represented by ~~no less than about 1 kilobyte~~ of data that is physically associated with the substrate;

(b) reading the machine-readable information from the substrate; and

(c) applying focused acoustic radiation to one or more fluid reservoirs each containing a moiety for attachment to the substrate surface so as to eject droplets therefrom toward the substrate surface, thereby accurately attaching the moieties to the designated sites.

Claim 46 (currently amended): The ~~device~~method of claim 45, wherein the machine-readable information is located on a surface of the substrate that is non-coplanar with respect to the surface adapted for attachment to a plurality of moieties.

Claim 47 (currently amended): The ~~device~~method of claim 45, wherein attachment of moieties to the surface is detectable through a signal having the same form as the machine-readable information.

Claim 48 (currently amended): The ~~device~~method of claim 47, wherein the signal form is fluorescence.

Claim 49 (currently amended): The ~~device~~method of claim 47, wherein the signal form is radioactivity.

Claim 50 (currently amended): The ~~device~~method of claim 46, wherein the non-coplanar surface opposes the surface adapted for attachment to a plurality of moieties.

Claims 51-90 (previously cancelled).

Claim 91 (previously added): The device of claim 1, wherein the information is contained in a discrete region of the substrate from the substrate surface having the plurality of molecular moieties attached thereto.

Claim 92 (currently amended): The ~~device~~method of claim 45, wherein the information is contained in a discrete region of the substrate from the substrate surface adapted for attachment to a plurality of molecular moieties.

Claim 93 (currently amended): The device of ~~either claim 91 or claim 92~~, wherein the discrete region is noncoplanar with respect to the substrate surface.

Claim 94 (currently amended): The device of ~~either claim 91 or claim 92~~, wherein the discrete region of the substrate is movable with respect to the surface to which the moieties are attached.

Claim 95 (previously added): The device of claim 94, wherein the substrate comprises a cartridge.

Claim 96 (previously added): The device of claim 1, wherein the machine-readable information and the attached moieties exhibit positional correspondence.

Claim 97 (currently amended): The device of ~~either claim 1 or claim 45~~, wherein the substrate has a radial mass distribution that is symmetric about an axis, perpendicular to the plane of the substrate surface.

Claim 98 (previously added): The device of claim 97, wherein the substrate is in the form of a disk.

Claim 99 (currently amended): The device of ~~either claim 1 or claim 45~~, wherein the machine-readable information is contained in a computer microchip.

Claim 100 (currently amended): The device of ~~either claim 1 or claim 45~~, wherein the machine-readable information is stored in a medium capable of emitting radiation.

Claim 101 (previously added): The device of claim 100, wherein the radiation is electromagnetic radiation.

Claim 102 (previously added): The device of claim 100, wherein the medium is a fluorescent medium.

Claim 103 (newly added): The device of claim 1, wherein the information is represented by no less than 1 kilobyte of data

Claim 104 (newly added): The method of claim 45, wherein the information is represented by no less than 1 kilobyte of data.

Claim 105 (newly added): A method for forming the device of claim 1, comprising the steps of:

- (a) providing a substrate having a plurality of designated sites on a surface thereof adapted for attachment to a plurality of moieties;
- (b) physically associating the machine-readable information with the substrate; and
- (c) applying focused acoustic radiation to one or more fluid reservoirs each containing a moiety for attachment the substrate surface so as to eject droplets therefrom toward the substrate surface, thereby accurately attaching the moieties to the designated sites.

Claim 106 (newly added): The method of claim 105, wherein step (b) comprises writing the machine-readable information on the substrate.